

Engineer: Bruce Page	Date: 2/9/04				
Drawn: Bruce Page	Date: 2/9/04				
Approved: CTS	Date: 2/24/04				
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**Raytheon**

**JPS Communications**  
5800 Departure Drive, Raleigh, NC 27616

**APPLIES TO:** Motorola XTL-5000 Mobile Radio (Accessory Connector)

**RADIO MODIFICATIONS:** None required.

#### **RADIO PROGRAMMING:**

1. Mobile radios should normally be programmed for low transmit power.
2. It is essential that the Microphone Off-Hook PL Disable function be turned off to allow the radio to transmit and receive PL tones. Under the Conventional Configuration, set "Hub Defeats PL" to disable (no check mark in the feature selection block).

**RADIO CONTROLS:** Not applicable.

#### **CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291262	(5961-271262 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281262	(5961-271262 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271262	
Radio RF Connector Type	Mini-UHF	

#### **DSP-1 JUMPERS:**

JP1	Hi Impedance	(See notes)
JP2	Unbalanced	(See notes)

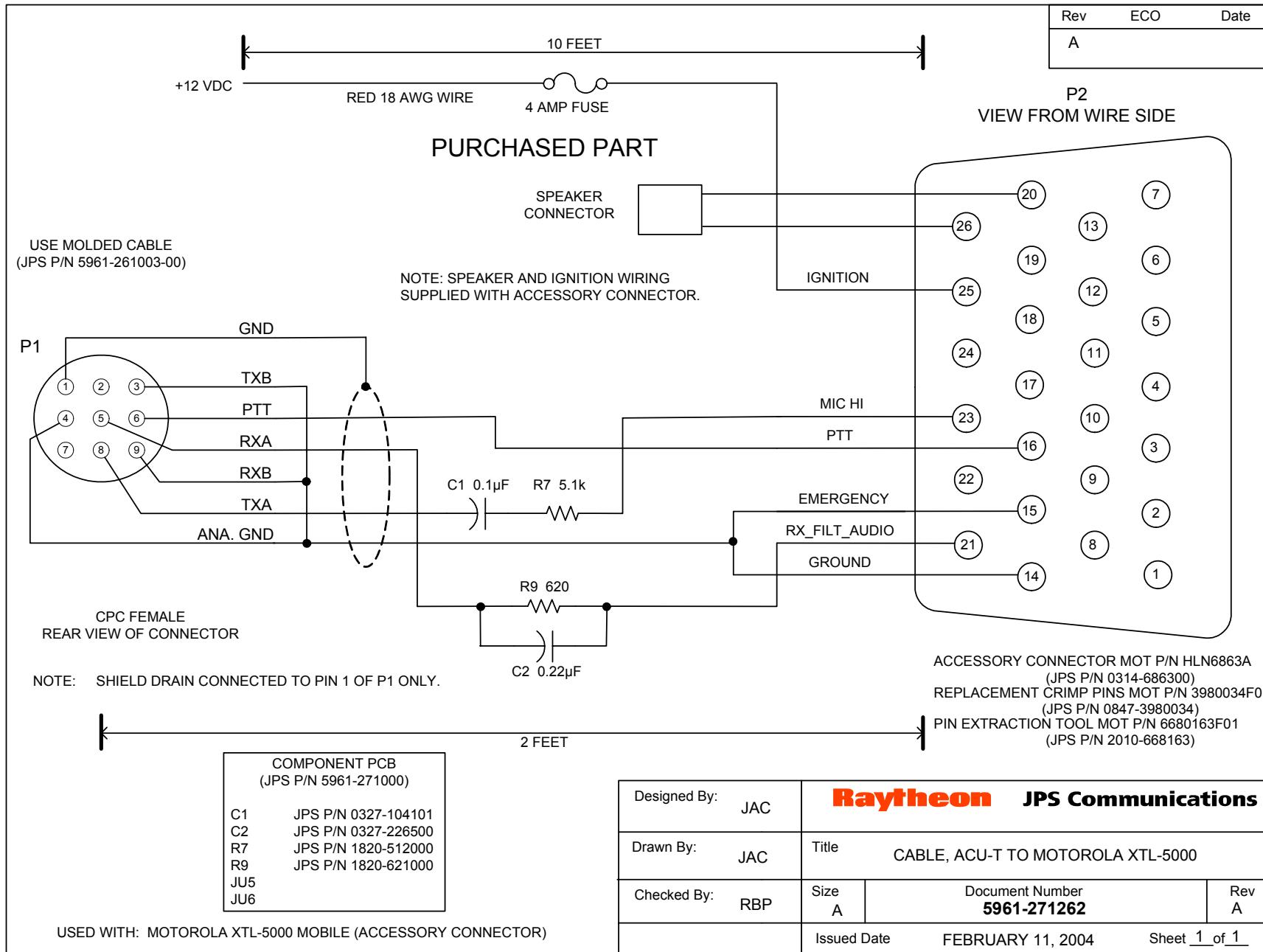
#### **DSP PROGRAMMING:**

RX Level	6	-12dBm	(See notes)
TX Level	6*	0dBm*	
Squelch Type	VOX*		
COR Polarity	Active Low*		
High Frequency Equalizer	5	2dB Boost	
RX Audio Delay	2*	100 ms*	
TX Audio Delay (Radio Type)	0*	No Delay*	
Noise Reduction Value	0*	Off*	
VOX/VMR Threshold	1*	Med1*	
VOX/VMR Hang Time	3*	775 ms*	
COR Inhibit After PTT	1*	100 ms*	
All Others	As needed		

(\* Indicates Default Value)

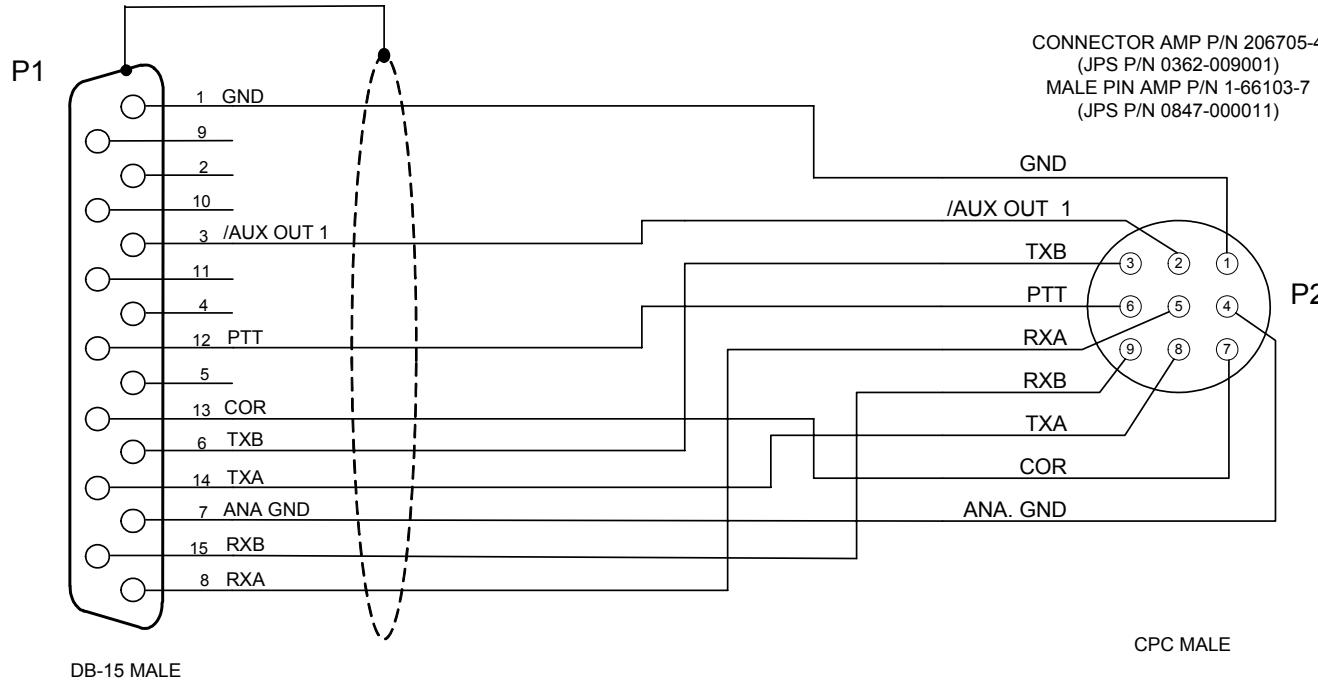
**NOTES:**

If the DSP-1 jumpers are left in the default positions (Lo Impedance and Balanced), the RX Level must be set at 9 (-26 dBm).



# PURCHASED PART

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NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.  
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.  
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.  
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

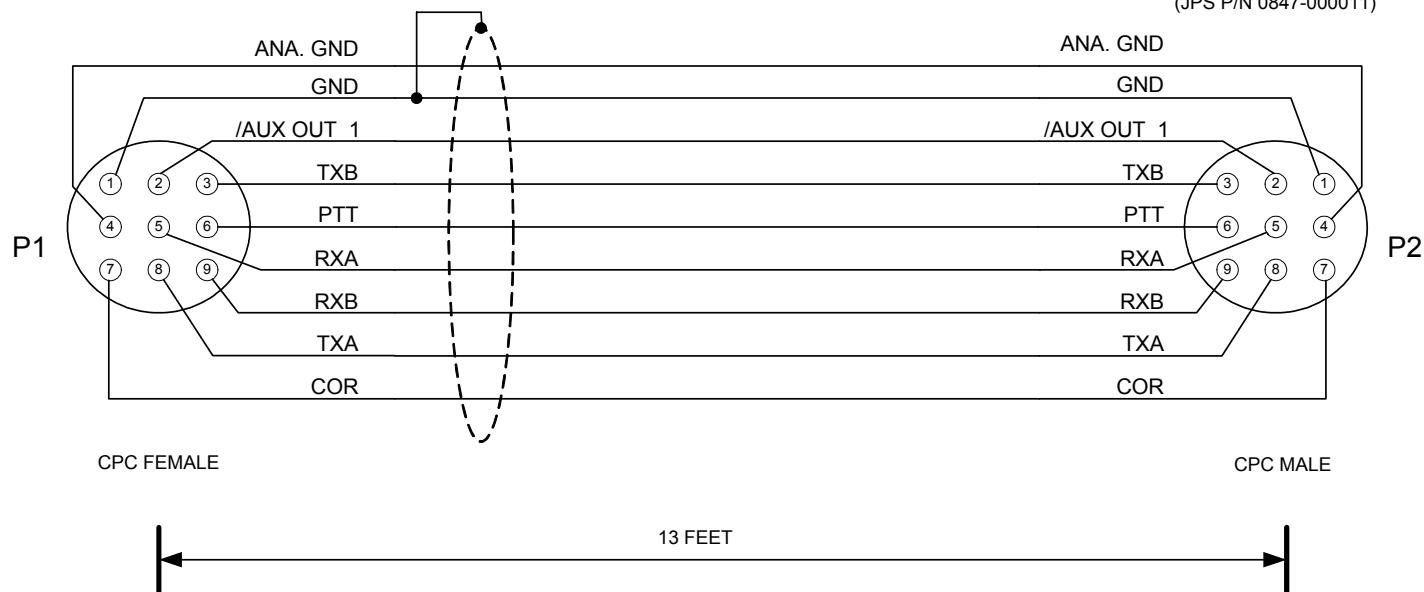
Designed By: JAC	<b>Raytheon JPS Communications</b>		
Drawn By: JAC	Title	CABLE, ACU-1000 RADIO EXTENSION - 13 FT	
Checked By: RBP	Size A	Document Number <b>5961-261002-00</b>	Rev A
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## PURCHASED PART

CONNECTOR AMP P/N 206708-1  
 (JPS P/N 0362-005003)  
 FEMALE PIN AMP P/N 1-66105-8  
 (JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4  
 (JPS P/N 0362-009001)  
 MALE PIN AMP P/N 1-66103-7  
 (JPS P/N 0847-000011)



NOTES:

- 1) USE BELDEN 9934 SHIELDED CABLE.
- 2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
- 3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
- 4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By:	JAC	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By:	JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By:	RBP	Size A	Document Number <b>5961-281013-00</b>	Rev A
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